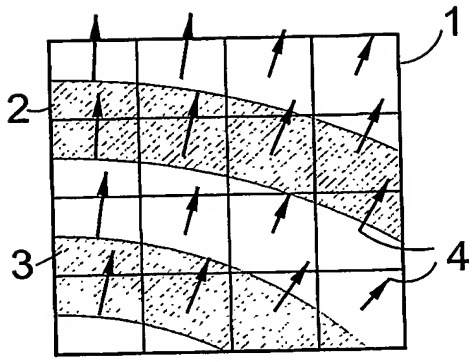

FIG.1

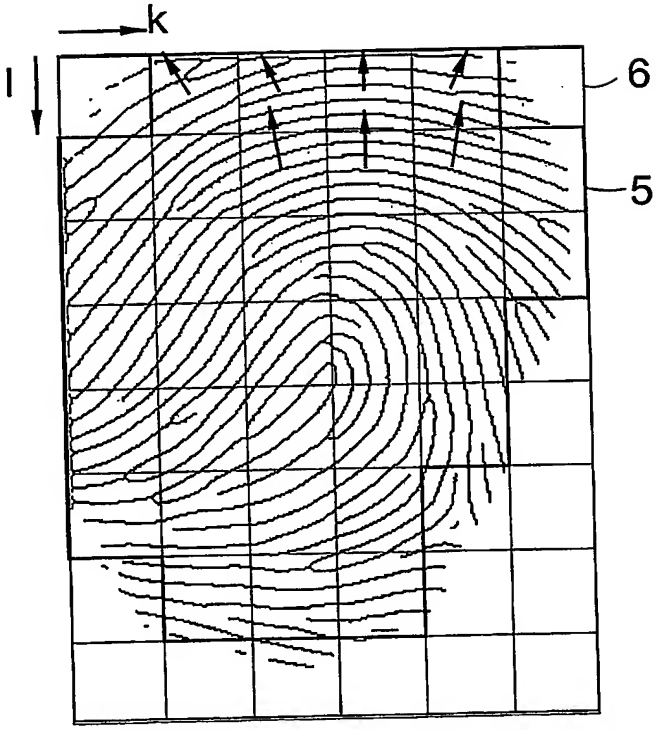

FIG.2

$$A_x = \sum_{k,l=1}^{\max-1} \left\langle \begin{pmatrix} (g_x)_{k,l} \\ (g_y)_{k,l} \end{pmatrix}, \begin{pmatrix} (g_x)_{k+1,l} \\ (g_y)_{k+1,l} \end{pmatrix} \right\rangle, \quad A_y = \sum_{k,l=1}^{\max-1} \left\langle \begin{pmatrix} (g_x)_{k,l} \\ (g_y)_{k,l} \end{pmatrix}, \begin{pmatrix} (g_x)_{k,l+1} \\ (g_y)_{k,l+1} \end{pmatrix} \right\rangle,$$

$$A_{xy} = \sum_{k,l=1}^{\max-1} \left\langle \begin{pmatrix} (g_x)_{k,l} \\ (g_y)_{k,l} \end{pmatrix}, \begin{pmatrix} (g_x)_{k+1,l+1} \\ (g_y)_{k+1,l+1} \end{pmatrix} \right\rangle, \quad A_{yx} = \sum_{k,l=1}^{\max-1} \left\langle \begin{pmatrix} (g_x)_{k+1,l} \\ (g_y)_{k+1,l} \end{pmatrix}, \begin{pmatrix} (g_x)_{k,l+1} \\ (g_y)_{k,l+1} \end{pmatrix} \right\rangle,$$

$$A = \sum_{k,l=1}^{\max} \left\langle \begin{pmatrix} (g_x)_{k,l} \\ (g_y)_{k,l} \end{pmatrix}, \begin{pmatrix} (g_x)_{k,l} \\ (g_y)_{k,l} \end{pmatrix} \right\rangle$$

FIG.3